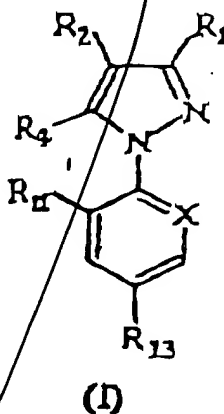


PATENT
454313-2339IN THE CLAIMS

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5-~~1~~ (Twice Amended) A synergistic [C] composition for long-lasting protection against fleas on [small] mammals comprising synergistic amounts of at least one compound (A) of [belonging to] the formula [(I)],



in which:

C1
R₁ is CN or methyl or a halogen atom;

R₂ is S(O)_nR₃ or 4, 5-dicyanoimidazol-2-yl or haloalkyl;

R₃ is alkyl or haloalkyl;

R₄ represents a hydrogen or halogen atom; or a radical NR₅R₆, S(O)_mR₇, C(O)R₇, C(O)O-R₇, alkyl, haloalkyl or OR₈ or a radical -N=C(R₉)(R₁₀);

R₅ and R₆ independently represent a hydrogen atom or an alkyl, haloalkyl, C(O)alkyl, alkoxycarbonyl or S(O)_r-CF₃ radical; R₅ and R₆ may together form a divalent alkylene radical which may be interrupted by one or two divalent hetero atoms [such as oxygen or sulphur];

R₇ represents an alkyl or haloalkyl radical;

R₈ represents an alkyl or haloalkyl radical or a hydrogen atom;

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R_{10} represents a phenyl or heteroaryl group optionally substituted with one or more halogen atoms or groups such as OH, -O-alkyl, S-alkyl, cyano or alkyl;

R_{11} and R_{12} represent, independently of each other, a hydrogen or halogen atom, or optionally CN or NO_2 ;

R_{13} represents a halogen atom or a haloalkyl, haloalkoxy, $\text{S}(\text{O})_q\text{CF}_3$ or SF_5 group;

m, n, q and r represent, independently of each other, an integer equal to 0, 1 or 2;

X represents a trivalent nitrogen atom or a radical C- R_{12} , the other three valency positions of the carbon atom forming part of the aromatic ring;

with the proviso that when R_1 is methyl, then R_3 is haloalkyl, R_4 is NH_2 , R_{11} is Cl, R_{13} is CF_3 and X is N; or R_2 is 4, 5-dicyanoimidazol-2-yl, R_4 is Cl, R_{11} is Cl, R_{13} is CF_3 and X is =C-Cl ;

and a synergistic amount of at least one ovicidal compound (B), of insect growth regulator (IGR) type, in a fluid vehicle which is acceptable to the animal and suitable for local application to the skin.

Claim 8, line 3, after "pyrazole" insert --, commonly known as Fipronil--.

Claim 9, line 3, after "pyrazole" insert --, commonly known as Fipronil--.

Claim 31, line 3, after "pyrazole" insert --, commonly known as Fipronil--.

Cancel claims 38 to 48 and 59, without prejudice, and add the following new

claims.

59. A synergistic composition for the long lasting protection against fleas and ticks on mammals which comprises synergistic effective amounts of Fipronil and a compound which mimics juvenile hormones.

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²61. The synergistic composition according to claim ¹60 wherein the compound which mimics juvenile hormones is selected from the group consisting of azadirachtin, diofenolan, fenoxycarb, hydroprene, kinoprene, methoprene, pyriproxyfen, tetrahydroazadirachtin and 4-chloro-2-(2-chloro-2-methyl-propyl)-5-(6-iodo-3-pyridylmethoxy)pyridazine-3(2H)-one.

³62. The synergistic composition according to claim ¹60, wherein the compound which mimics juvenile hormones is methopren or pyriproxyfen.

⁴63. The synergistic composition according to claim ¹60, wherein the compound which mimics juvenile hormones is methopren.

⁴⁹ ~~52~~ 64. A method for controlling fleas and ticks on mammals over a long duration of time which comprises locally applying to the skin of said mammal a synergistically effective amount of a synergistic composition according to claim ⁵ ~~52~~ 49.

⁵⁰ ~~52~~ 65. The method according to claim ⁵² ~~52~~ 49, wherein the mammals are cats and dogs.

⁵⁴ ~~52~~ 66. The method according to claim ⁵² ~~52~~ 49 wherein, the dose of the composition is from 1 to 20 mg/kg of compound (A) and 1 to 30 mg/kg of compound (B).

⁵² ~~52~~ 67. The method according to claim ⁵² ~~52~~ 49, wherein it contains a dose of from 0.1 to 40 mg/kg of compound (A) and from 0.1 to 40 mg/kg of compound (B).

⁵³ ~~52~~ 68. The method according to claim ⁵² ~~52~~ 49, wherein it contains a dose of from 1 to 20 mg/kg.

~~52~~ 69. The method according to claim ⁵² ~~52~~ 49, wherein the synergistic composition is a "spot-on" type.

⁵⁴ ~~52~~ 70. The method of claim ⁵² ~~52~~ 49 wherein in the compound R₁ is CN.

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- 55 71. The method of claim ~~64~~^{52 49} wherein in the compound R_{13} is haloalkyl.
- 56 72. The method of claim ~~64~~^{52 49} wherein in the compound R_{13} is CF_3 .
- 57 73. The method of claim ~~64~~^{52 49} wherein in the compound R_2 is $S(O)_n R_3$.
- 58 74. The method of claim ~~64~~^{52 49} wherein in the compound $n=1$ and R_3 is methyl, ethyl or CF_3 .
- 59 75. The method of claim ~~64~~^{52 49} wherein in the compound $n=0$ and R_3 is CF_3 .
- 60 76. The method of claim ~~64~~⁴⁹ wherein in the compound X is $C-R_{12}$ and is a halogen atom.
- 61 77. The method of claim ~~64~~^{52 49} wherein in the compound R_1 is CN , and/or R_3 is haloalkyl, and/or R_4 is NI_2 , and/or R_{11} and R_{12} are, independently of each other, a halogen atom, and/or R_{13} is haloalkyl.
- 62 78. The method according to claim ~~64~~^{52 49}, wherein the synergistic composition comprises synergistic effective amounts of Fipronil and a compound which mimics juvenile hormones.
- 63 79. The method according to claim ~~78~~⁶², wherein the compound which mimics juvenile hormones is selected from the group consisting of azadirachtin, diofenolan, fenoxycarb, hydroprene, kinoprene, methoprene, pyriproxyfen, tetrahydroazadirachtin and 4-chloro-2-(2-chloro-2-methyl-propyl)-5-(6-iodo-3-pyridylmethoxy) pyridazine-3(2H)-one.
- 64 80. The method according to claim ~~78~~⁶², wherein the compound which mimics juvenile hormones is methopren or pyriproxyfen.
- 65 81. The method according to claim ~~78~~⁶², wherein the compound which mimics juvenile hormones is methopren.
- 66 82. The method according to claim ~~64~~^{52 49}, wherein the duration is two months.